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Suite 2500 300 South Wacker Dr.		ART UNIT	PAPER NUMBER	
Chicago, IL 60606			2436	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)				
Office Action Summary		10/812,622	OMOTE ET AL.				
		Examiner	Art Unit				
		CARLTON V. JOHNSON	2436				
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1\ ⊠ Ros	nonsive to communication(s) filed on 11 No	ovember 2000					
•	Responsive to communication(s) filed on <u>11 November 2009</u> . This action is FINAL . 2b) This action is non-final.						
<i>'</i> —	<i>/</i> —						
•	☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
CIUS	ed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.				
Disposition o	of Claims						
4)⊠ Clai	☑ Claim(s) <u>1,3-5,8,13,15-18,22-25,27,28,34,35,41 and 43</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
•	Claim(s) is/are allowed.						
•	6) Claim(s) <u>1,3-5,8,13,15-18,22-25,27,28,34,35,41 and 43</u> is/are rejected.						
	m(s) is/are objected to.	<u>7 ana 70</u> 10/are 10/00164.					
·	m(s) are subject to restriction and/or	coloction requirement					
O)[Clai	in(s) are subject to restriction and/or	election requirement.					
Application Papers							
9)☐ The specification is objected to by the Examiner.							
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
, —							
Priority under 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
Attachment(s) 1) Notice of F 2) Notice of E 3) Information	References Cited (PTO-892) Draftsperson's Patent Drawing Review (PTO-948) In Disclosure Statement(s) (PTO/SB/08) S)/Mail Date <u>9-2-2009 10-13-2009 12-15-2009</u> .	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:	(PTO-413) te				

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DETAILED ACTION

1. This action is in response to application amendments filed on 11-11-2009.

2. Claims 1, 3 - 5, 8, 13, 15 - 19, 22 - 25, 27, 28, 34, 35, 41, 43 are pending.

Claims 1, 3, 5, 8, 13, 15, 16, 18, 22 - 25, 27, 28, 34 have been amended. Claims 2, 6, 7, 9 - 12, 14, 19 - 21, 26, 29 - 33, 36 - 40, 42 have been cancelled. Claims 1, 3, 5, 8, 13, 15, 16, 18, 22, 23, 24, 25, 27, 28, 34, 35 are independent. This application was filed on 3-20-2004.

Response to Arguments

- 3. Applicant's arguments have been fully considered but they were not persuasive.
- 3.1 Applicant argues that the referenced prior art does not disclose, "changing the measurement parameters when the communication is judged to have been executed by the worm at the judging"; "wherein the acquiring includes acquiring, based on the measurement parameters changed at the changing, the information on the communication judged to have been executed by the worm at the judging"; the acquiring unit acquires, based on the measurement parameters changed by the setting changing unit, the information on the communication judged to have been executed by the worm by the judging unit"

There is no specific disclosure for specific measurement parameters in the specification or original claims. The Spiegel prior art discloses that parameters are adjustable or changeable and can be changed or weighted based on other parameters.

(see Spiegel col. 5, lines 15-21: dynamic (i.e. adjustable, changeable) parameters for worm determination; relative (percentage) parameters used; col. 5, lines 47-53: heuristic can be fine tuned)

Willebeek-LeMair prior art discloses self-hardening of the detection system which optimizes the capabilities of the monitoring system. (Willebeek-LeMair paragraph [0054], lines 1-14: tuning operation performed in an automated manner; paragraph [0055], lines 1-17: effectuates a self-hardening system; paragraph [0056], lines 1-16: threat detection and threat suppression (firewall) capabilities of the system are continually being optimized (by the interlocking and agent functionalities in response to continuous threat assessment analysis))

3.2 Applicant argues that the referenced prior art does not disclose, "changing the judgment criteria when the communication is judged to have been executed by the worm at the judging: ; "wherein the judging includes further judging whether the communication judged to have been executed by the worm at the judging has been executed by the worm based on the information acquired and the judgment criteria changed at the changing".

Spiegel prior art disclose the changing of the judgment criteria used to judge whether a worm has intruded within communications. (see Spiegel col. 5, lines 8-10; col. 5, lines 15-21: worm determination based on information and adjusted (i.e. changed) information; col. 6, lines 15-22: software, implementation means)

3.3 Spiegel prior art discloses monitoring network traffic such as network packets and

analyzing the monitored traffic to determine whether the communications is from a network node infected by a worm. The analysis is completed over a period of time. (see Spiegel col. 1, lines 50-60; col. 3, lines 27-30: monitor network traffic based on source and destination addresses, and information not matching criteria for normal traffic; col. 3, lines 20-24: connection attempts to remote destinations over a period of time)

Siegel prior art discloses a determination that communication is executed by a system infected by a worm. Spiegel prior art and its combination with Willebeek-LeMair and Bunker disclose the criteria of a large number of packets and additional criteria used to make the determination of communication from a system infected by a worm. (see Spiegel col. 1, lines 50-60; col. 3, lines 27-30; monitor network traffic based on source and destination addresses and information not matching criteria for normal traffic setting; col. 1, lines 60-67; col. 3, line 63 - col. 4, line 9; determine communications due to worm, based on threshold or predetermined criteria)

Spiegel prior art discloses that previously recorded information or historical information can be analyzed and compared to current communication information in order to make a determination of whether communication is coming from an infected worm. (see Spiegel col. 3, lines 58-67: worm determination; col. 5, lines 8-15: history or recorded information utilized in worm determination). In addition, threshold limitations in data processing disclose a comparison of a current parameter value against a threshold value to determine a course of action.

Spiegel prior art discloses the usage of threshold criteria to make a determination

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of communication from a system infected by a worm. A threshold is maximum limit parameter. A current count of communication packets for connection attempts must be counted or summed and the current count of these types of packets are compared against a limit or threshold parameter.

Willebeek-LeMair prior art discloses the specific extraction of reference information such as a port number from a communications packet. Willebeek-LeMair prior art discloses the usage of port number information in the analysis of communication traffic. (see Willebeek-LeMair paragraph [0031], lines 5-14: extract reference information (IP address, port number))

Claim Rejections - 35 USC § 112

4. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

5. Claims 1, 3, 5, 8, 13, 15, 16, 22 - 25, 27, 28 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

In Claims 1, 13, 15 there is no disclosure for the amended claim limitation: "changing the measurement parameters when the communication is judged to have been executed by the worm at the judging; wherein the acquiring includes acquiring,

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based on the measurement parameters changed at the changing, the information on the communication judged to have been executed by the worm at the judging".

Claims 3, 5, 8, 16, 22 - 25, 27, 28 disclose amendments to include measurement parameters. There is no disclosure for specific parameters utilized in the measurement of activity in the determination of whether a worm has intruded upon communication for a network connected system. The specification discloses the calculation of measurements over time to track the flow of network traffic from selected network nodes in the determination of the intrusion of a worm on network communications.

For Claims **5**, **18** there is no disclosure for the amended limitation: "all three conditions are satisfied". There is no disclosure for this claim limitation in the specification or the original claims.

Appropriate correction is required.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 1, 3 5, 8, 13, 15 18, 22 24, 34, 41, 43 are rejected under 35 U.S.C. 103(a) as being unpatentable over **Spiegel et al.** (US Patent No. 7,159,149) in view of **Willebeek-LeMair et al.** (US PGPUB No. 20030204632).

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With Regards to Claims 1, 13, 15, Spiegel discloses a computer readable recording medium for storing a computer program, device for detecting a worm by monitoring a communication of a predetermined network segment that is connected to a network and judging whether the communication is executed by a worm, the computer program causing a computer to perform:

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a) acquiring information related to a traffic and a communication address of a communication packet based on setting information including unit time for measurement. (see Spiegel col. 1, lines 50-60; col. 3, lines 27-30: monitor network traffic based on source and destination addresses, and information not matching criteria for normal traffic setting; col. 3, lines 20-24: connection attempts to remote destinations over a period of time; col. 2, lines 51-53; col. 2, lines 62-65; col. 6, lines 15-22: software, implementation means)

Furthermore, Spiegel discloses:

- b) judging whether the <u>communication has</u> been being executed by the worm based on the information acquired and a predetermined judgment criteria; (see Spiegel col. 1, lines 60-67; col. 3, line 63 col. 4, line 9: determine communications due to worm, based on threshold or predetermined criteria)
- e) changing the <u>measurement parameters when</u> the communication is <u>judged to</u>

 <u>have been</u> executed by the worm <u>at the judging</u>; wherein the acquiring includes
 acquiring, <u>based on the measurement parameters changed at the changing</u>, the
 information on the communication judged to have been executed by the worm at

the judging. (see Spiegel col. 5, lines 15-21: dynamic (i.e. adjustable, changeable) parameters used for worm determination; col. 5, lines 47-53: heuristic can be fine tuned; col. 6, lines 15-26: software, implementation means; col. 5, lines 38-42: threshold (parameters) can be easily reconfigured; parameters can be set based on system requirements)

Spiegel does not specifically disclose extracting specific information and blocking communication packet.

However, Willebeek-LeMair discloses:

- c) extracting reference information for identifying a communication packet to be
 blocked from a plurality of communication packets transmitted in the
 communication judged to have been executed by the worm at the judging; (see
 Willebeek-LeMair paragraph [0031], lines 5-14: extract reference information (IP
 address, port number))
- d) blocking the communication packet that is transmitted between the predetermined network segment and the outside of the predetermined network based on the reference information extracted at the extracting. (see Willebeek-LeMair paragraph [0017], lines 12-15; paragraph [0031], lines 5-14; paragraph [0035], lines 7-14: block communications packets between network segments (inside network segment and outside network segment))

It would have been obvious to one of ordinary skill in the art to modify Spiegel for extracting specific information and blocking communication packet as taught by Willebeek-LeMair. One of ordinary skill in the art would have been motivated to

employ the teachings of Willebeek-LeMair for threat detection and threat response operational in an optimized manner that mitigates false detection. (see Willebeek-LeMair paragraph [0013], lines 5-11)

With Regards to Claims 3, 16, Spiegel discloses a computer-readable recording medium for storing a computer program, device for detecting a worm by monitoring a communication of a predetermined network segment that is connected to a network and judging whether the communication is executed by a worm, the computer program causing a computer to perform:

acquiring information related to a traffic and a communication address of a communication packet based on setting information including unit time for measurement parameters; as stated in Claim 1 above.

Furthermore, Spiegel discloses for following:

judging whether the communication <u>has been</u> executed by the worm based on the information acquired and a predetermined judgment criteria; as stated in Claim 1 above;

changing the judgment criteria when the communication is judged to have been executed by the worm at the judging, wherein the judging includes further judging whether the communication judged to have been executed by the worm at the judging has been executed by the worm based on the information acquired and the judgment criteria changed at the changing. (see Spiegel col. 5, lines 8-10; col. 5, lines 15-21: worm determination based on information and adjusted (i.e.

changed) information; col. 6, lines 15-22: software, implementation means)

Spiegel does not specifically disclose extracting information and blocking communication.

However, Willebeek-LeMair discloses the following:

extracting reference information for identifying a communication packet to be blocked from a plurality of communication packets transmitted in the communication judged to have been executed by the worm at the judging; as stated in Claim 1 above;

network segment and the outside of the predetermined network based on the reference information extracted at the extracting as stated in Claim 1 above.

Motivation to modify Spiegel as taught by Willebeek-LeMair is stated in Claim 1 above.

With Regards to Claims 4, 17, Spiegel discloses the computer readable recording medium, device according to claims 1, 15, the judging includes judging that a communication from a computer that is in the predetermined network segment is executed by the worm when there is an increase in number of communication packets as well as number of destination addresses of communication packets that are transmitted from the predetermined network segment to the outside. (see Spiegel col. 3, lines 20-27: network communication packets throughput increased, worm determination; col. 4, lines 17-22: number of destination addresses is high; col. 6, lines 15-22:

software, implementation means)

With Regards to Claims 5, 18, Spiegel discloses a computer-readable recording medium for storing a computer program, device for detecting a worm by monitoring a communication of a predetermined network segment that is connected to a network and judging whether the communication is executed by a worm, the computer program causing a computer to perform:

acquiring information related to a traffic and a communication address of a communication packet based on measurement <u>parameters</u>; as stated in Claim 1 above.

Furthermore, Spiegel discloses the following:

first judging whether a computer in the predetermined network segment is infected by the worm based on the information acquired and a predetermined judgment criteria; as stated in Claim 1 above;

second judging whether a plurality of computers in the predetermined network segment are infected by the worm; (see Spiegel col. 1, lines 50-60; col. 3, lines 27-30: monitor network traffic based on source and destination addresses, and information not matching criteria for normal traffic setting; col. 5, lines 8-10: history of worm detection; col. 5, lines 47-50: particular source/destination addresses (i.e. for a computer) monitored)

the second judging includes judging that plurality of computers in the predetermined network segment are infected by the worm <u>all three conditions are satisfied, the</u>

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three conditions being that; (see Spiegel col. 5, lines 8-10: history of worm detection; col. 5, lines 47-50: particular source/destination addresses (i.e. for a computer) monitored)

- f) a communication from the computer in the predetermined network segment is judged to be infected by the worm at the first judging; (see Spiegel col. 5, lines 8-10: history of worm detection; col. 5, lines 47-50: particular source/destination addresses (i.e. for a computer) monitored; col. 6, lines 15-22: software, implementation means)
- g) a number of communication packets that are transmitted from the predetermined network segment to the outside becomes greater than a number of communication packets transmitted from the predetermined network segment to the outside when the computer is judged to be infected by the worm at the first judging, and a number of destination addresses of the communication packets transmitted from the predetermined network segment to the outside when the computer is judged to be infected by the worm at the first judging. (see Spiegel col. 3, lines 20-27: worm determination based on number of packets transferred to addresses (i.e. inside or outside local network); connection attempts (destination addresses))

Spiegel does not specifically disclose extracting information and blocking communication.

However, Willebeek-LeMair discloses the following:

extracting reference information for identifying a communication packet to be blocked from a plurality of communication packets transmitted in the communication upon it being judged at the first judging that the computer is infected by the worm; as stated in Claim 1 above;

network segment and the outside of the predetermined network based on the reference information extracted at the extracting; as stated in Claim 1 above.

Motivation to modify Spiegel as taught by Willebeek-LeMair is stated in Claim 1 above.

With Regards to Claim 8, Spiegel discloses a computer-readable recording medium for storing a computer program for detecting a worm by monitoring a communication of a predetermined network segment that is connected to a network and judging whether the communication is executed by a worm, the computer program causing a computer to perform:

acquiring information related to a traffic and a communication address of a communication packet based on measurement <u>parameters</u>; as stated in Claim 1 above.

Furthermore, Spiegel discloses the following:

judging whether the communication is executed by the worm based on the information acquired and a predetermined judgment criteria; as stated in Claim 1 above;

the judging includes <u>identifying</u> a type of the worm by comparing features of a <u>first</u> communication with features of a <u>second</u> communication executed by a worm that are recorded in <u>advance</u>, when the <u>first</u> communication is judged to be <u>executed by a worm</u>. (see Spiegel col. 3, lines 58-67: worm determination; col. 5, lines 8-15: history or recorded information utilized in worm determination; col. 6, lines 15-22: software, implementation means)

Spiegel does not specifically disclose extracting information and blocking communication.

However, Willebeek-LeMair discloses the following:

extracting reference information for identifying a communication packet to be blocked from a plurality of communication packets transmitted in the communication upon it being judged at the judging that the communication is executed by the worm; as stated in Claim 1 above;

network segment and the outside of the predetermined network based on the reference information extracted at the extracting; as stated in Claim 1 above.

Motivation to modify Spiegel as taught by Willebeek-LeMair is stated in Claim 1 above.

With Regards to Claims 22, 23, 24, 34, Spiegel discloses a computer-readable recording medium for storing a computer program, device for detecting a worm by monitoring a communication of a predetermined network segment that is connected to a

network and judging whether the communication is executed by a worm, the computer program causing a computer to perform:

acquiring information related to a traffic and a communication address of a communication packet based on measurement <u>parameters</u>; as stated in Claim 1 above.

Furthermore, Spiegel discloses:

judging whether the communication <u>has been</u> executed by the worm based on the information acquired and a predetermined judgment criteria; as stated in Claim 1 above.

Spiegel does not specifically disclose extracting port information and blocking communication.

However, Willebeek-LeMair discloses the following:

extracting reference information for identifying a communication packet to be blocked from a plurality of communication packets transmitted in the communication judged to have been executed by the worm at the judging; as stated in Claim 1 above;

network segment and the outside of the predetermined network based on the reference information extracted at the extracting; as stated in Claim 1 above; the extracting includes extracting as the reference information, a most frequently appearing port number of the communication packets transmitted in the communication judged to have been executed by the worm. (see Willebeek-LeMair

paragraph [0031], lines 5-14: extract reference information (IP address, port number))

Motivation to modify Spiegel as taught by Willebeek-LeMair is stated in Claim 1 above.

With Regards to Claim 41, Spiegel discloses the computer-readable recording medium according to claim 3, the judging includes judging that a communication from a computer that is in the predetermined network segment is executed by the worm based on communication packets as well as number of destination addresses of communication packets that are transmitted from the predetermined network segment to the outside. (see Spiegel col. 1, lines 50-62: connections attempts (communication packets) directed to a destination address used in determination of a worm)

Spiegel does not specifically disclose an increase in number of communication packets that are transmitted.

However, Willebeek-LeMair discloses an increase in number of communication packets that are transmitted. (Willebeek-LeMair paragraph [0007], lines 8-12: large numbers of packets and connection requests (destination address))

Motivation to modify Spiegel as taught by Willebeek-LeMair is stated in Claim 1 above.

With Regards to Claim 43, Spiegel discloses the computer-readable recording medium according to claim 8, the judging includes judging that a communication from a

computer that is in the predetermined network segment is executed by the worm based on communication packets as well as number of destination addresses of communication packets that are transmitted from the predetermined network segment to the outside. (see Spiegel col. 1, lines 50-62: connections attempts (communication packets) directed to a destination address used in determination of a worm)

Spiegel does not specifically disclose an increase in number of communication packets as well as number of destination addresses of communication packets that are transmitted.

However, Willebeek-LeMair discloses an increase in number of communication packets as well as number of destination addresses of communication packets that are transmitted. (Willebeek-LeMair paragraph [0007], lines 8-12: large numbers of packets and connection requests (destination address))

Motivation to modify Spiegel as taught by Willebeek-LeMair is stated in Claim 1 above.

6. Claims **25**, **27**, **28**, **35** are rejected under 35 U.S.C. 103(a) as being unpatentable over **Spiegel-"Willebeek-LeMair"** and further in view of **Bunker et al.** (US PGPUB No. **20030056116**).

With Regards to Claims 25, 27, 28, 35, Spiegel discloses the computer program, computer-readable medium, method, and device according to claims 1, 12, 13, 14, 33. (see Spiegel col. 1, lines 48-62: monitoring for worm determination; col. 4, lines 45-48: traffic analysis, calculation utilizing network addressing (IP address, port number)) a

computer-readable recording medium for storing a computer program for detecting a worm by monitoring a communication of a predetermined network segment that is connected to a network and judging whether the communication is executed by a worm, the computer program causing a computer to perform:

acquiring information related to a traffic and a communication address of a communication packet based on setting information including unit time for measurement <u>parameters</u>; as stated in Claim 1 above.

Furthermore, Spiegel discloses:

judging whether the communication is executed by the worm based on the information acquired and a predetermined judgment criteria; as stated in Claim 1 above.

Spiegel does not specifically disclose extracting information such as a port number and blocking communication.

However, Willebeek-LeMair discloses the following:

extracting reference information for identifying a communication packet to be blocked from a plurality of communication packets transmitted in the communication upon it being judged at the judging that the communication is executed by the worm; as stated in Claim 1 above;

blocking the communication packet that is transmitted between the predetermined network segment and the outside of the predetermined network based on the reference information extracted at the extracting; as stated in Claim 1 above.

Spiegel does not specifically disclose calculations utilizing reference information such as port numbers in the analysis of work determination.

However, Bunker discloses extracting further includes summing up, for each type of the communication, a number of the communication packets transmitted in the communication upon it being judged that the communication is executed by the worm at the judging, and extracting, as the reference information, a type of the communication, the number of the communication packets is over a threshold value. (see Bunker paragraph [0189], lines 1-11; paragraph [0215], lines 1-5; paragraph [0220], lines 8-12: calculation (summation) of access information in worm determination)

It would have been obvious to one of ordinary skill in the art to modify Spiegel to calculate a summation of reference information utilized for worm determination as taught by Bunker. One of ordinary skill in the art would have been motivated to employ the teachings of Bunker to emulate hacker methodology in a safe way and enable study of network security openings without affecting customer operations. (see Bunker paragraph [0012], lines 1-8)

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Carlton V. Johnson whose telephone number is 571-270-1032. The examiner can normally be reached on Monday thru Friday, 8:00 - 5:00PM EST.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nasser Moazzami can be reached on 571-272-4195. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Nasser Moazzami/

Supervisory Patent Examiner, Art Unit 2436

Carlton V. Johnson Examiner Art Unit 2436

CVJ January 4, 2010